Index of Claims

| Application. | Control No. |
|--------------|-------------|
|--------------|-------------|

Applicant(s)/Patent under Reexamination

08/903,743

LONG ET AL. Art Unit

Examiner

CESAR B. PAULA

2178

| <br>1 | Rejected |
|-------|----------|
| -     | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| ı | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

|                                                  |                                                                                                                                                                               | L_                                    | L        |                                                  |                                                  |              | j                                                |                                                  |              |                 |  |  |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|--------------------------------------------------|--------------------------------------------------|--------------|--------------------------------------------------|--------------------------------------------------|--------------|-----------------|--|--|
|                                                  |                                                                                                                                                                               |                                       | _        |                                                  |                                                  |              |                                                  |                                                  |              | _               |  |  |
| Cla                                              | aim                                                                                                                                                                           |                                       | Date     |                                                  |                                                  |              |                                                  |                                                  |              |                 |  |  |
|                                                  | _                                                                                                                                                                             | <u>ر</u> ا                            |          |                                                  |                                                  |              | l                                                |                                                  |              |                 |  |  |
| Final                                            | Original                                                                                                                                                                      | 2/27/06                               |          |                                                  | 1                                                |              |                                                  |                                                  | ]            |                 |  |  |
| li≟                                              | . <u>6</u>                                                                                                                                                                    | 2                                     |          |                                                  | 1                                                |              | 1                                                |                                                  |              | 1               |  |  |
|                                                  | 0                                                                                                                                                                             | ١~                                    |          |                                                  |                                                  |              |                                                  |                                                  |              |                 |  |  |
| <u> </u>                                         | 1                                                                                                                                                                             | 1.7                                   | $\vdash$ | _                                                | 一                                                | $\vdash$     | <del>                                     </del> | -                                                | -            | Н               |  |  |
| -                                                | 2                                                                                                                                                                             | <u> </u>                              | $\vdash$ | $\vdash$                                         | $\vdash$                                         | $\vdash$     |                                                  | -                                                | $\vdash$     |                 |  |  |
|                                                  | -2                                                                                                                                                                            | Ι-,                                   | +        | ╁                                                | ⊢                                                | -            | $\vdash$                                         | -                                                | ⊢            | $\vdash$        |  |  |
|                                                  | 3                                                                                                                                                                             | ۲,                                    | $\vdash$ | ╁                                                | ┢                                                | ┢            | ⊢                                                | ⊢                                                | ⊢            | Н               |  |  |
|                                                  | 4                                                                                                                                                                             | <u>  v</u>                            | ├-       | -                                                | <u> </u>                                         | H            |                                                  |                                                  | ⊢            | Н               |  |  |
|                                                  | 5                                                                                                                                                                             | -                                     | ļ.,      | ┡                                                | ├                                                | <u> </u>     | _                                                | <u> </u>                                         | _            | Н               |  |  |
|                                                  | 6                                                                                                                                                                             | -                                     | ļ        | L                                                | <u> </u>                                         | _            |                                                  |                                                  | _            | Ш               |  |  |
|                                                  | 7                                                                                                                                                                             | ✓                                     | _        |                                                  | L                                                | _            | L                                                |                                                  |              | Ш               |  |  |
|                                                  | 8                                                                                                                                                                             | -                                     |          |                                                  |                                                  |              |                                                  | L_                                               |              |                 |  |  |
|                                                  | 9                                                                                                                                                                             | V                                     |          |                                                  | П                                                |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 10                                                                                                                                                                            | 4                                     | İ        |                                                  |                                                  |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 11                                                                                                                                                                            | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1        | Ì                                                | Ī                                                | Ι            | Г                                                | <del>                                     </del> |              |                 |  |  |
|                                                  | 12                                                                                                                                                                            | ₩,                                    | 1        | t                                                |                                                  | $\vdash$     |                                                  | <del>                                     </del> |              | $\vdash$        |  |  |
| $\vdash$                                         | 13                                                                                                                                                                            | <u> </u>                              | +-       | t                                                |                                                  | <del> </del> | $\vdash$                                         |                                                  | <u> </u>     | -               |  |  |
| $\vdash$                                         | 14                                                                                                                                                                            | <u></u>                               | 1        | <b>-</b>                                         | H                                                | $\vdash$     | $\vdash$                                         | -                                                |              | $\vdash \dashv$ |  |  |
|                                                  | 15                                                                                                                                                                            | 1                                     | }        | <del> </del>                                     | -                                                | <del> </del> | $\vdash$                                         | $\vdash$                                         |              | Н               |  |  |
| <del></del>                                      | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31 | #                                     | -        | <del>                                     </del> | <u> </u>                                         | $\vdash$     |                                                  |                                                  | $\vdash$     | Н               |  |  |
|                                                  | 10                                                                                                                                                                            | 11                                    | -        | ├                                                | ļ                                                | -            | ├—                                               | $\vdash$                                         |              | Н               |  |  |
| L                                                | 1/                                                                                                                                                                            | Н                                     | <u> </u> |                                                  |                                                  | <u> </u>     |                                                  |                                                  | _            | ш               |  |  |
|                                                  | 18                                                                                                                                                                            | Ц                                     | L        | <u> </u>                                         |                                                  | _            | _                                                |                                                  |              | Ш               |  |  |
|                                                  | 19                                                                                                                                                                            | Ш                                     |          |                                                  |                                                  | L            |                                                  |                                                  |              |                 |  |  |
|                                                  | 20                                                                                                                                                                            | П                                     |          |                                                  |                                                  |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 21                                                                                                                                                                            | П                                     |          |                                                  |                                                  |              |                                                  |                                                  |              | П               |  |  |
|                                                  | 22                                                                                                                                                                            | П                                     |          |                                                  |                                                  |              |                                                  |                                                  |              | П               |  |  |
|                                                  | 23                                                                                                                                                                            | П                                     | $\vdash$ |                                                  |                                                  | $\vdash$     |                                                  | _                                                | _            | $\Box$          |  |  |
|                                                  | 24                                                                                                                                                                            | H                                     | $\vdash$ |                                                  |                                                  |              |                                                  | $\vdash$                                         | $\vdash$     | Н               |  |  |
|                                                  | 25                                                                                                                                                                            | 1                                     | ┼─       | -                                                |                                                  |              | $\vdash$                                         | -                                                | Н            | -               |  |  |
|                                                  | 20                                                                                                                                                                            | U                                     | $\vdash$ |                                                  |                                                  |              | $\vdash$                                         | $\vdash$                                         | $\vdash$     | Н               |  |  |
| <u> </u>                                         | 20                                                                                                                                                                            |                                       | ⊢        |                                                  | _                                                |              | H                                                | _                                                | -            | Н               |  |  |
| <u> </u>                                         | 21                                                                                                                                                                            | \√                                    | Ͱ        | ⊢-                                               | ļ                                                | _            | _                                                | <u> </u>                                         | _            |                 |  |  |
|                                                  | 28                                                                                                                                                                            | √                                     | ┡        | _                                                | <u> </u>                                         |              |                                                  | _                                                | $oxed{oxed}$ | Щ               |  |  |
|                                                  | 29                                                                                                                                                                            | √                                     | ļ_       | L                                                | L.                                               |              |                                                  |                                                  |              | Ш               |  |  |
|                                                  | 30                                                                                                                                                                            | _                                     | L        | _                                                |                                                  |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 31                                                                                                                                                                            |                                       | L        | L                                                | L                                                |              |                                                  | L                                                |              |                 |  |  |
|                                                  | 32                                                                                                                                                                            | √                                     |          |                                                  |                                                  |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 33                                                                                                                                                                            | V                                     |          |                                                  |                                                  |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 32<br>33<br>34                                                                                                                                                                | _                                     | П        | Π                                                |                                                  | Ι            | l                                                |                                                  |              |                 |  |  |
|                                                  | 35                                                                                                                                                                            | Ā                                     | 1        | Т                                                | Г                                                | $\vdash$     | $\vdash$                                         |                                                  |              |                 |  |  |
|                                                  | 36                                                                                                                                                                            | +                                     | 1        | $\vdash$                                         | <del>                                     </del> | _            | $\vdash$                                         | -                                                | H            | =               |  |  |
| $\vdash \vdash$                                  | 36<br>37<br>38                                                                                                                                                                | C/                                    | $\vdash$ |                                                  | <u> </u>                                         |              | <b></b>                                          | -                                                | Н            | $\dashv$        |  |  |
| $\vdash \vdash \vdash$                           | 30                                                                                                                                                                            | <u>~</u>                              |          | -                                                |                                                  | -            | $\vdash$                                         | $\vdash$                                         | Н            | $\dashv$        |  |  |
| <del>                                     </del> | 39                                                                                                                                                                            | ✓                                     | -        | <del> </del>                                     |                                                  | -            | -                                                | Н                                                | Н            | $\dashv$        |  |  |
|                                                  |                                                                                                                                                                               | <del>-</del> -                        | ₩        | $\vdash$                                         | -                                                | Ь.           | $\vdash$                                         | H                                                | Н            | $\dashv$        |  |  |
| $\vdash$                                         | 40                                                                                                                                                                            | -                                     | <u> </u> | <u> </u>                                         | <u> </u>                                         |              |                                                  |                                                  |              | -               |  |  |
| $\vdash$                                         | 41                                                                                                                                                                            | 느                                     | <u> </u> | <u> </u>                                         | <u> </u>                                         | <u> </u>     | <u> </u>                                         |                                                  | Ш            | Щ               |  |  |
| $\sqcup$                                         | 42                                                                                                                                                                            | ✓                                     | <u> </u> | L                                                | L                                                | L_           | Ш                                                |                                                  | Щ            | Ш               |  |  |
| oxdot                                            | 43                                                                                                                                                                            | 4                                     |          | L                                                | <u> </u>                                         | L            |                                                  |                                                  |              | Ш               |  |  |
|                                                  | 44                                                                                                                                                                            |                                       | L        | L                                                | L                                                |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 45                                                                                                                                                                            | Π                                     |          |                                                  |                                                  |              |                                                  |                                                  |              | $\Box$          |  |  |
|                                                  | 46                                                                                                                                                                            | $\sqcap$                              |          |                                                  |                                                  |              |                                                  |                                                  |              |                 |  |  |
|                                                  | 47                                                                                                                                                                            | $\sqcap$                              |          |                                                  |                                                  |              |                                                  | П                                                |              |                 |  |  |
| $\vdash$                                         | 48                                                                                                                                                                            | +                                     | $\vdash$ | Н                                                |                                                  | _            | $\vdash$                                         | $\dashv$                                         | $\dashv$     | $\dashv$        |  |  |
| <del>                                     </del> | 49                                                                                                                                                                            | ᢐ                                     | -        | -                                                | -                                                | _            | $\dashv$                                         | Н                                                | -            | $\dashv$        |  |  |
| ┝─┤                                              | 50                                                                                                                                                                            | ۲,                                    |          | -                                                |                                                  | -            | $\dashv$                                         | $\dashv$                                         |              | $\dashv$        |  |  |
| II                                               | οU                                                                                                                                                                            | ↳                                     | [        | Ш                                                |                                                  | لـــا        |                                                  |                                                  |              |                 |  |  |

| Cla          | aim                                                | Π                                                |                                                  |               | 1        | Dat          | <u> </u> |              |               |                                              |
|--------------|----------------------------------------------------|--------------------------------------------------|--------------------------------------------------|---------------|----------|--------------|----------|--------------|---------------|----------------------------------------------|
|              |                                                    | <del>                                     </del> | <u> </u>                                         | Г             | Γ.       | Ť            | Ť        |              | Г             | П                                            |
| Final        | Original                                           | 2/27/06                                          |                                                  |               | :        |              |          |              |               |                                              |
|              | 51                                                 | 1                                                | <del>                                     </del> | $\vdash$      | _        | <u> </u>     | $t^-$    | $\vdash$     | H             | $\vdash$                                     |
|              | 52                                                 | ¥                                                | T                                                | t             | T        |              | t        |              | ┢             | ┢                                            |
|              | 53                                                 | Ħ                                                |                                                  |               |          |              |          |              |               | $\vdash$                                     |
|              | 54                                                 | Ħ                                                |                                                  | t             |          | Н            |          |              |               | ┢                                            |
|              | 55                                                 | d                                                |                                                  | _             |          | 1            |          |              |               | Г                                            |
|              | 51<br>52<br>53<br>54<br>55<br>56                   | V                                                |                                                  | _             |          |              |          |              |               |                                              |
|              | 57<br>58                                           | V                                                |                                                  | $\overline{}$ | $\vdash$ |              |          |              | $\overline{}$ | $\vdash$                                     |
|              | 58                                                 | Ė                                                |                                                  | Т             |          |              |          | Г            |               |                                              |
|              | 59                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 60                                                 | Π                                                |                                                  |               |          |              |          |              |               |                                              |
|              | 60<br>61                                           | П                                                |                                                  | П             |          |              |          |              |               |                                              |
|              | 62                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 63                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 62<br>63<br>64<br>65<br>66                         |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 65                                                 |                                                  |                                                  | $\Box$        |          |              |          |              |               |                                              |
| L            | 66                                                 |                                                  |                                                  |               |          | L.           | L        | L            | _             |                                              |
| L            | 67                                                 |                                                  |                                                  |               |          |              | 乚        |              |               |                                              |
|              | 68                                                 |                                                  |                                                  |               |          |              | L        |              |               |                                              |
|              | 69                                                 |                                                  |                                                  |               |          | 匚            | L        |              |               | <u> </u>                                     |
|              | 70                                                 |                                                  |                                                  |               | L        | <u> </u>     | <u> </u> | L_           | L             | <u> </u>                                     |
|              | 71                                                 |                                                  |                                                  |               |          | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>      | L                                            |
|              | 72                                                 | <u> </u>                                         | _                                                |               |          |              |          | <u> </u>     |               |                                              |
|              | 73                                                 | L                                                | <u> </u>                                         |               | <u> </u> | ļ            | ļ        | _            | ļ             | <u> </u>                                     |
|              | 74                                                 | _                                                | _                                                | _             | <u> </u> | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>      | _                                            |
|              | 75                                                 |                                                  | <u> </u>                                         | _             | <u> </u> | <b>!</b>     | ⊢        | ļ            | _             | <u> </u>                                     |
| <u> </u>     | 68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76 | _                                                | <u> </u>                                         | <u> </u>      | <u> </u> | ├-           | <u> </u> | <u> </u>     |               | <u> </u>                                     |
| ├            | 78                                                 | ├                                                | ┝                                                | -             | $\vdash$ | $\vdash$     | ⊢        |              | $\vdash$      | $\vdash$                                     |
|              | 70                                                 | $\vdash$                                         | $\vdash$                                         | <del> </del>  | -        | <del> </del> | -        | ├-           |               | <del> </del>                                 |
|              | 79<br>80                                           | $\vdash$                                         | $\vdash$                                         | ┝             |          | <u> </u>     | -        |              | -             | H                                            |
|              | 81                                                 |                                                  | -                                                | -             | _        |              |          |              | H             | ⊢                                            |
|              | 82                                                 | $\vdash$                                         | $\vdash$                                         | $\vdash$      | -        |              | -        |              | $\vdash$      | -                                            |
| _            | 82<br>83                                           |                                                  |                                                  | -             |          |              | ┢╌       | -            |               | _                                            |
|              | 84                                                 | ┢                                                |                                                  | -             | -        | -            | -        | <del> </del> | -             |                                              |
| <b>—</b>     | 84<br>85                                           |                                                  |                                                  | Н             |          | $\vdash$     | H        | $\vdash$     | Н             |                                              |
|              | 86                                                 |                                                  | -                                                |               | -        | H            | $\vdash$ |              | $\vdash$      | $\vdash$                                     |
|              | 87                                                 |                                                  |                                                  | _             | _        | Г            | $\vdash$ | $\vdash$     |               |                                              |
|              | 87<br>88                                           |                                                  |                                                  |               |          | Γ            |          |              | П             |                                              |
|              | 89                                                 |                                                  |                                                  |               |          |              | 1        |              |               |                                              |
|              | 90                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 91                                                 |                                                  |                                                  |               |          |              |          |              | $\Box$        |                                              |
|              | 92                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 93                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 94                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
|              | 95                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
| $oxed{\Box}$ | 96                                                 | ]                                                |                                                  |               |          |              |          |              |               |                                              |
| <u></u>      | 97                                                 |                                                  |                                                  |               |          |              |          |              |               |                                              |
| $\square$    | 98                                                 |                                                  | Ш                                                |               |          | <u>_</u>     |          | Ш            | Ш             | L.,                                          |
| $oxed{oxed}$ | 99                                                 |                                                  |                                                  |               |          | L.,          |          |              | L             |                                              |
| L            | 100                                                | ليلا                                             |                                                  |               |          |              |          |              |               | <u>.                                    </u> |

| Cl       | aim                      | r -      |          | Date                                             |          |              |              |              |              |          |
|----------|--------------------------|----------|----------|--------------------------------------------------|----------|--------------|--------------|--------------|--------------|----------|
| Oic      |                          |          | Τ        | Т                                                | Γ,       | I            | Ť            |              |              | $\Box$   |
| Final    | Original                 |          |          |                                                  |          |              |              |              |              |          |
|          | 101                      |          | Г        |                                                  |          |              |              |              |              |          |
|          | 102<br>103               |          |          |                                                  |          |              |              |              |              |          |
|          | 103                      |          |          | <u> </u>                                         |          | 匚            | _            |              | L            |          |
|          | 104                      |          |          | <u> </u>                                         | _        |              |              | _            | L            |          |
|          | 105<br>106               | _        | <u> </u> | L                                                | L_       | _            | _            |              | ļ            |          |
|          | 106                      | <u> </u> | ļ        | ļ                                                | ļ        |              | <u> </u>     | _            | <u> </u>     |          |
|          | 107                      | ļ        | ļ.,      | <u> </u>                                         | ļ        |              | <u> </u>     |              | _            |          |
|          | 108<br>109               | _        | _        | ┢                                                | -        | <u> </u>     | <del> </del> | _            | <u> </u>     |          |
|          | 110                      | <u> </u> | ┢        |                                                  | <u> </u> |              | -            | -            | <del> </del> |          |
|          | 111                      |          | ┼─       | ├                                                | -        |              | $\vdash$     |              | $\vdash$     |          |
|          | 112                      | ├─       | ├-       | ┢                                                | $\vdash$ | ┢            | ┢            | ╁            | -            | $\vdash$ |
|          | 113                      | <u> </u> |          | $\vdash$                                         |          | -            |              |              | -            |          |
|          | 112<br>113<br>114<br>115 | $\vdash$ | $\vdash$ | <del>                                     </del> | $\vdash$ | ├─           | _            |              |              |          |
|          | 115                      | -        | -        | -                                                |          |              |              |              |              | П        |
|          | 116<br>117<br>118        |          |          |                                                  |          |              |              |              |              |          |
|          | 117                      |          |          |                                                  |          |              |              |              |              |          |
|          | 118                      |          |          | Г                                                |          | Π            |              |              |              |          |
|          | 119                      |          |          |                                                  |          |              |              |              |              |          |
|          | 120                      |          |          |                                                  |          |              |              |              |              |          |
|          | 121<br>122               | _        |          | L                                                |          | L_           | <u> </u>     |              | <u> </u>     |          |
|          | 122                      |          |          |                                                  | _        |              | <u> </u>     |              |              |          |
|          | 123                      |          |          |                                                  |          | ļ.,          |              |              |              |          |
|          | 124<br>125               |          | _        |                                                  | L_       | _            | _            | <u> </u>     |              | Щ        |
|          | 125<br>126               |          | <u> </u> |                                                  |          | <u> </u>     | <u> </u>     |              |              | -        |
|          | 120                      |          | _        | _                                                |          | ⊢            | <u> </u>     | -            |              |          |
|          | 127<br>128               |          | $\vdash$ | $\vdash$                                         |          | H            | -            | $\vdash$     |              | $\vdash$ |
|          | 120                      | _        | -        | $\vdash$                                         | ┢        | -            | $\vdash$     | -            |              | -        |
|          | 129<br>130               |          | _        | -                                                | -        |              | $\vdash$     | $\vdash$     | _            | -        |
|          | 131                      |          |          |                                                  | -        |              | -            |              |              | $\dashv$ |
| -        | 132                      |          |          | -                                                | ┢        |              | $\vdash$     | Н            |              | $\neg$   |
|          | 132<br>133               | -        |          |                                                  |          |              | $\vdash$     |              | _            |          |
|          | 134                      |          | _        | _                                                |          |              | _            | -            | _            |          |
|          | 135                      |          |          |                                                  |          | Г            |              |              |              |          |
|          | 136                      |          |          |                                                  |          |              |              |              |              |          |
|          | 137                      |          |          |                                                  |          |              |              |              |              |          |
|          | 138                      |          | L        |                                                  |          | $\Box$       |              |              |              |          |
|          | 139                      |          | L.       | <u> </u>                                         | L        | $oxed{\Box}$ | L            | $oxed{\Box}$ | $\Box$       | Ш        |
|          | 140                      |          | ļ        | L                                                | _        |              | L            |              |              | Ш        |
|          | 141                      |          | <u> </u> | <u> </u>                                         |          | L            |              | Ш            | Щ            |          |
|          | 142                      |          | <u> </u> | <u> </u>                                         | _        | <u> </u>     |              | <u> </u>     |              | _        |
|          | 143                      |          |          | <u> </u>                                         | _        | Н            | H            | Щ            | $\vdash$     | Ш        |
|          | 144                      |          | -        | $\vdash$                                         | -        | Н            | -            | $\vdash$     | $\vdash$     | -        |
|          | 146                      | _        | -        | <u> </u>                                         | $\vdash$ | Н            |              | Н            |              | $\dashv$ |
| $\dashv$ | 147                      | _        | -        | $\vdash$                                         | $\vdash$ | Н            | -            | Н            | $\vdash$     | $\dashv$ |
|          | 148                      |          | -        | ١                                                |          | $\vdash$     | H            | Н            | $\dashv$     | $\dashv$ |
|          | 149                      |          | Н        | H                                                |          | $\vdash$     | $\vdash$     | $\vdash$     |              | $\dashv$ |
| -        | 150                      |          | $\vdash$ | $\vdash$                                         |          | $\vdash$     | -            | -            | -            |          |
|          | . 50                     |          | لـــا    |                                                  |          |              | لـــــا      |              |              |          |